

THE 4★ PUZZLER

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... AND MORE!



FOR STARTERS

Around the time you should be receiving this issue of *The Four-Star Puzzler*, some 100 crossword contestants will be squaring off at the Ramada Inn in Montvale, New Jersey. This is the third year for the Montvale tournament, sponsored by the Ridgewood (N.J.) Newspapers, and it illustrates the growing popularity of a delightful phenomenon—the crossword puzzle contest.

Actually, crossword tournaments only seem new because they haven't been around for 50 years. Back in 1924—on May 18th, to be precise—the first crossword contest was held at the Hotel Ambassador in New York. The winner, William A. Stern II, was named "Crossword Puzzle Champion of the World" after completing an 11x11 grid in 10 minutes, 10.4 seconds. Slowpoke.

We think the most exciting tournament of that period must have been the single-elimination, intercollegiate contest held at New York's Hotel Roosevelt on January 4, 1925. Vassar, Smith, Wellesley, and Bryn Mawr represented women's colleges, and Harvard, Yale, Princeton, and City College of New York represented the men's. As the audience watched from the chandeliered ballroom, two-member teams competed on four blackboards suspended over the stage. Two teams played at once, each member getting clues, chalk, and an eraser. According to the *New York World*, the Harvard/Yale semifinal was the highlight of the day: "Yale came through with a superb ninth-inning rally, hitting their op-

ponents with a seven-letter word meaning 'a slight convex curve in the shaft of a column' and dropping Harvard with a staggering vowel to the jaw while thousands cheered."

England has had a national crossword competition since 1970, sponsored by *The Times* of London and Cutty Sark whiskey. Contestants must solve several fiendishly difficult puzzles in one of six regional tournaments to earn the right to compete in the championship in London.

The winner last fall for the sixth time was Dr. John Sykes, editor of the *Concise Oxford English Dictionary*, who coolly completed the four championship puzzles without error in 37½ minutes.

In the United States the largest contest is the annual American Crossword Puzzle Tournament in Stamford, Connecticut, now in its fourth year. About 120 puzzle enthusiasts competed over a week-end last year on American crosswords

(continued on page 2)

1 It's Your Turn

HENRY HOOK

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----

Solve the 11 posers below and fill the answers in the squares above.

1. By reversing the name of one of the twelve months and removing one letter, you'll have a synonym for "pack." Write the removed letter, in lower case, in Square 15.

2. A synonym for "taxi" + a certain letter + a synonym for "mesh" = a seven-letter word. Write the "certain letter," in lower case, in Square 1.

3. A type of barrier has a homonym meaning "to condemn." Find the difference between the two words and write it, in lower case, in Square 13.

4. A certain five-letter word means both "a tally" and "a nobleman." Write its middle letter, in lower case, in Square 8.

5. The first and last (pen) names of *Alice in Wonderland's* creator share one letter. As Alice might have seen that letter through the looking glass, write it in *upper* case in Square 11.

6. Alphabetically, what letter is as far from O as T is, but on the other side of O? Write it, in upper case, in Square 5, and put a hyphen through it.

7. Take a word for a kind of outdoor bed. Remove its first and last letters; the result reversed is a punctuation mark. Place this mark properly in Square 12.

8. If $x^2 - 4x = -3$, find the two values for x and write their *product* in Square 10.

9. Subtract five from twice the cube of three. Write the positive square root of the result in Square 2.

10. Two of the six remaining squares have numbers that are upside-down images of one another. Draw "an anagram of CLERIC" in each of the other four squares.

11. If you've solved all ten of the above posers, turn the page upside-down and read the message in the squares.

Answer, page 10

Rebus Cartoons

A Four-Star Contest

Grand Prize: Your choice of \$50 worth of records

10 Runner-Up Prizes: One-year subscription to *The Four-Star Puzzler*

Competition Puzzles in This Issue: Nos. 2, 3, 4, 10, 19, 32, 36, and 40.

How to Solve the Puzzles

You will find eight rebus cartoon puzzles in this issue, beginning in the next column and continuing on later pages. The caption above each cartoon gives the category of the answer and the number of letters in it. Thus, "Author: 6, 4" would indicate that the answer is the name of an author whose first name contains six letters and last name contains four letters.

All the parts of each answer are found *phonetically* in the cartoon, in one or more of the following five ways:

1. Words or hyphenated syllables actually spoken by the cartoon characters;
2. Synonyms of words spoken by the characters;
3. Names of prominent objects in the picture;
4. Letters in the picture;
5. Words implied by the action or subject of the scene.

For example, the answer to the first cartoon (U.S. River: 11) is "Mississippi." It is sounded out by the word MRS., spoken by the man in the middle, the word SIP, suggested by the man with the soda, and the letter E on the wall (MRS.-SIP-E, or MISSISSIPPI).

How to Enter

On a postcard or the back of an envelope (no letters, please), send us the answers to as many rebus cartoons as you can solve. Please include concise explanations of answers (as in the example above) so the judges can verify alternate solutions, if any. Send to "Rebus Cartoons," *The Four-Star Puzzler*, 515 Madison Ave., New York, NY 10022. Entries must be received by February 10, 1981.

Winning

The winner will be the reader who correctly solves the most cartoons. Those who submit the next ten best entries will be runners-up. In case of ties, winners will be chosen by random drawing. Answers will appear next month. Winners' names will appear in the May issue.

Ex.: U.S. River: 11



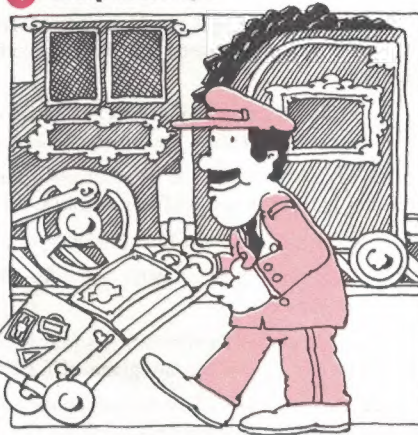
2 Midwest City: 4, 5



3 1920s Melody: 8, 2, 4



4 Composer: 4, 6



For Starters, cont'd

comparable to those in this issue of the *Puzzler*, in order to select three finalists. These three raced simultaneously to complete a 15x15 championship puzzle on separate overhead projectors, while an audience of several hundred watched from a chandeliered ballroom. Shades of 1925! If you are interested in competing in this year's tournament, by the way, from March 6-8, contact Marlene Lynch, Stamford Marriott Hotel, 2 Stamford Forum, Stamford, CT 06901.

Other news: Puzzle constructor Jordan Lasher has sent us an article from the *Pittsburgh Press* (October 12, 1980) reporting that "there are a lot of crossword puzzle enthusiasts in the metropolitan area" who are interested in forming a crossword club. If you are one such person, we suggest you contact the *Press*. For our part, we will report on the activities of any new puzzle groups as we hear of them.

Special features to look for in this issue: a crossword puzzle by one of America's leading puzzlemakers, A. J. Santora (page 9); a "who's who" profile of diagramless master Norton Rhoades (page 8), along with a new diagramless crossword by him; and the first in a periodic series of real-life puzzles (page 6) that we hope you can help us solve.

Also, be sure to try the puzzles of the Sphinx, commissioned for this issue by leading verse-puzzle writers (page 4). Those, plus a whole new batch of rebus cartoons, cryptograms, and other ingenuities. Here's enough to occupy a whole month of cold winter evenings.

THE 4★ PUZZLER

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5 Fair Play

Logic Problem
LEIGH KING

The six Maverick children were all involved with county fair entries. So that they would not compete with each other, they all chose different events. Each had won an award but no two won the same awards. Also, during fair week each had different sleeping arrangements.

Their names are Magda, Mark, Martha, Martin, Mary, and Matthew; their projects were a Black Angus steer, a Suffolk ram, a Landrace sow and litter, Home Improvement, Land Improvement, and Western-style horsemanship; their awards were Sweepstakes (trophy and purple ribbon), Grand Champion (plaque and purple ribbon), Reserve Champion (purple ribbon), First Place (blue ribbon), Second Place (red ribbon), and Third Place (white ribbon); their sleeping accommodations were in the back of the family station wagon, in the horse trailer that had hauled Flash to the fair, in the same stall with the owner's entry, at the Girls' Dormitory, at the Boys' Dormitory, and with a friend who lived in town; their ages were 19, 17, 15, 14, and 12 (two of the children are twins).

From the clues below determine each Maverick's entry, award, sleeping arrangement, and age.

Clues

1. Magda did not enter the Land Improvement entry; the white ribbon went to the youngest child's horsemanship entry; Mark placed lower than the boy who entered the sow and litter, and neither of these two slept with his entry.

2. Martha did not sleep in the trailer nor did she have the Home Improvement entry; "Mary Had a Little Lamb" would have been most appropriate for the eldest Maverick girl; the 14-year-old blue ribbon winner decided not to stay at the Boys' Dorm.

3. Neither twin entered a project involving animals.

4. Mark, the eldest child, placed lowest among the boys; each boy won only a ribbon.

5. The horsemanship entrant, who slept in the station wagon, did not win a trophy or plaque; the plaque winner stayed in the Girls' Dorm.

6. Matthew was younger than the Sweepstakes winner, but older than the twins.

7. Since the Land Improvement entrant, who slept at a friend's house, was the younger twin by ten minutes, the ages of the children alternated between boys and girls.

8. The Reserve Champion stayed at the Boys' Dorm.

Quick Quotes

HELENE HOVANEC

Two short quotations below have been divided into groups of three letters, and those groups placed in alphabetical order. Rearrange the groups to reconstruct the quotes. The authors' names will appear at the end. Numbers in parentheses indicate word lengths. Answers, page 10

6 (4 1 3 9 2 7 7 4 6; 4 6 3 2 4—5 5)

7 (5 3 2 5 3 2 6 6 2 3 8—7 5)

BEV ECE EOP ERL ERY FUL KIN LEI LLS
LOT MET NAW NTH NYP OFS REA REA THE
YSI

ACROSS

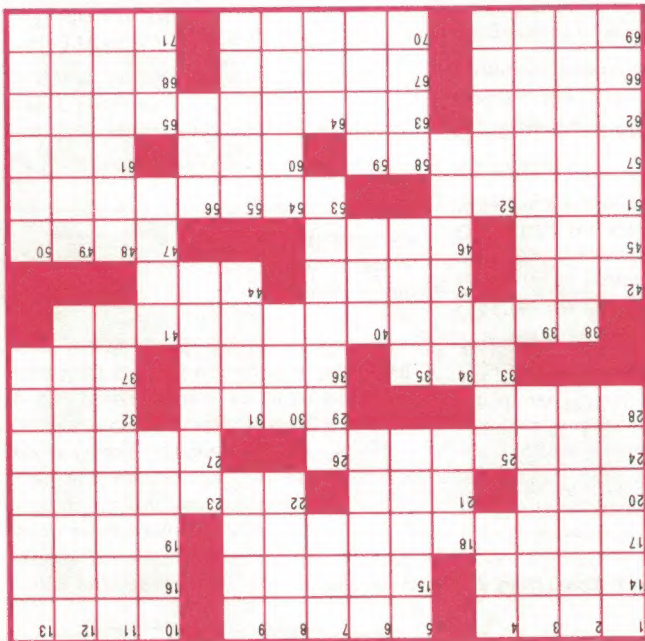
- 1 Beatles' "Let —"
- 5 Spruce (up)
- 10 Breton, e.g.
- 14 Carol
- 15 Winter warmer
- 16 What there
- 17 oughta be
- 19 Homer's "b"
- 20 — Annie, of
- 21 Penquin
- 22 Look-alike
- 24 Nonsensel
- 27 Cape elk
- 28 "... a —" clock
- 29 Roman theaters
- 32 Ma Bell's no.
- 33 Scull propellant
- 36 Custom
- 37 Carbhydrate
- 38 Nonsensel
- 42 Darlin'
- 43 Evening, to
- 44 WWII spy org.
- 45 Crumb
- 46 Ratio phrase
- 47 One of the
- 51 Whitman's *Leaves* of —

DOWN

- 1 All together
- 2 —ool
- 3 Lament
- 4 Sprite
- 5 Scrub
- 6 Beer Barrel or
- 7 "Rocks"
- 8 Broadleaf plant
- 9 Bonnie's
- 10 Plot
- 11 Kind of shaft
- 12 Tardiness
- 13 Nonsensel
- 18 Feedback filler
- 23 One-time 10
- 25 — boy (a
- 26 The — of
- 30 — good deed
- 31 With: Prefix
- 34 Basketball
- 35 Car collectors' statistic
- 38 Gruesome
- 39 Michigander's prizes
- 40 Spasm
- 41 Villa d'
- 42 Nonsensel
- 48 — Douce
- 49 Cacophonies
- 50 Gibson girl?
- 52 Would appear
- 54 Stranger
- 55 Loam
- 56 — Bingle
- 58 "Snug as —"
- 59 Peel
- 64 Sweater size: Abbr.
- 65 Patriotic grp.

8 Nonsense!

STEPHANIE SPADACCINI





The Sphinx Page



The puzzles on this page are like those written years ago when puzzles were often in poems and the Sphinx was known as "The Patron Saint of Puzzledom."

Most of the puzzles contain capitalized words (FIRST, SECOND, etc., or the equivalent) which represent missing keywords to be guessed. Discover these keywords from their context in the lines. Note: Answer words need not have the same rhyme or number of syllables as the capitalized words that replace them. Numbers in parentheses, next to the puzzle titles, indicate the number of letters in the full answers.

9 Charade (11) (proper name)

Discover FIRST and SECOND which together form BOTH.

Example: LEG + ALLY = LEGALLY

My FIRST is a mammal.
(It isn't a camel.)

In grace it is laughably lacking.
And my SECOND, you clamor?
(Please pardon my grammar.)
It are handy for storing and packing.

Who am I? I'm BOTH.
This I state on my oath.
(I may doctor the facts nonetheless.)
Achilles I healed
Ere Blue Cross and Blue Shield.
Who am I? By now can't you guess?

Linda Bosson

New York, NY

10 Film Classic: 7, 4



11 Charade (7)

Sometime, somewhere, I might, I guess,
Have been a success.
But in the TWO and ONE I'm beat
And going COMPLETE.

Marjorie B. Friedman

Buffalo, NY

12 Charade (9)

"This baseball team's a sorry lot."
The trainer made these cracks.
"A FIRST of senior citizens,
A bunch of SECOND hacks.

Why, every day I have to get
You back in shape to play.
I'm always TOTAL cuts and scrapes,
Yet you get all the pay."

Murray R. Pearce

Bismarck, ND

13 Charade (7)

Compared to ONE whole universe
TWO men are less than WHOLE.
Or THREE it seems to FOUR, at least,
When on a starlit stroll.

Gary Fisher

Rochester, NY

14 Reversal (4)

Reverse the letters of FIRST to get LAST.
Example: DENIM — MINED

He promised to send for me later,
He said he loved no one but me.
Then he stood at the FIRST, and he blew me a
kiss

As his sailing ship put out to sea.
Now in vain I'm awaiting his letter,
And my tears are a-flowing so fast.
I'm aware that he never was truthful,
But my heart's crying out for that LAST.

Miriam Raphael

Port Chester, NY

15 Beheadment (4, 3)

Remove the initial letter of ONE to form TWO.

Example: BRISK — RISK

"A 'high-liver' I've been
And TWO well, while it lasted.
Had I known 'twas for ONE,"
Said the goose, "I'd have fasted."

Jeanne E. Roman

Jamesville, NY

16 Curtailment (7, 6)

Remove the last letter of PRIMAL to form FINAL.

Example: BUTTER — BUTTE

Folks seek joy in PRIMAL ways—
Anything to chase a frown.
FINAL, though, are rather odd:
They get joy from being down.

David A. Rosen

Buffalo, NY

17 Transposal (5)

Rearrange the letters of ONE to form TWO.

Example: OCEAN — CANOE

Trim your ONE cloth coat with TWO;
Muse with just a tinge of sorrow
On the adage, old but true,
"Hare today and gone tomorrow."

Jeanne E. Roman

Jamesville, NY

18 Transposal (6 3, 9)

I must remember ev'ry spring
To buy the best food coloring.
My daughter dips a ONE into
The cup and tells me what to do:
"You have your own—this one's for me.
Don't mix them up, but TWO mine! See?"

Mel Rosen

Stanfordville, NY

19 Novel: 7, 4



20 Transposal (5)

Loud ONE the bell, but I compose
My TWO to God in garden close.
From THREE and petal, bud and leaf,
FOUR loveliness beyond belief:
All Heaven FIVE before a Rose.

Willard R. Espy

New York NY

Anagrams

Rearrange the letters of the given phrase or sentence to form a new word, name, or phrase with a similar meaning.
Example: A LATIN, I — ITALIAN

21 O, I HANG FINE DRESS (7 8)

22 AY, REPENT IN IT (12)

23 PRAY, HEED, I'M SCAM (1 7 6)

24 HAIL, LOOK, I HATE MANY (9 8) (proper name)

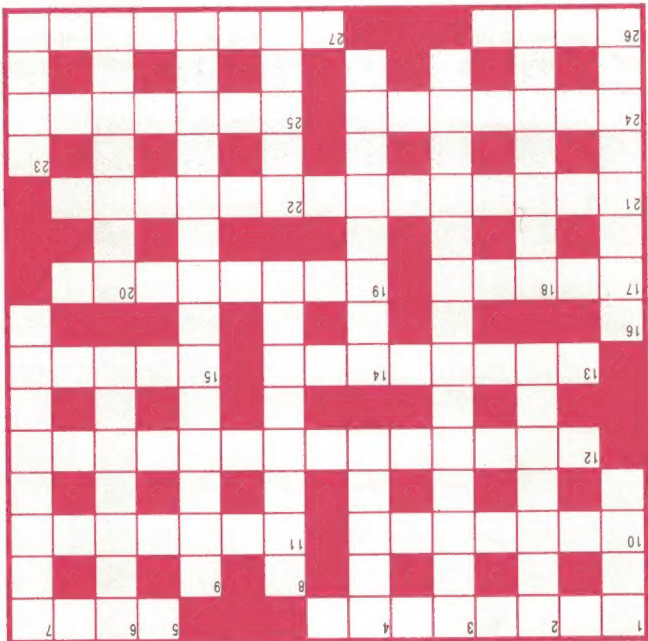
David Shulman

New York, NY

Do you feel the Muse? Send us an original puzzle of any type you see on this page, and we'll thank you with \$20 if it is used. Anagrams will be judged for appositeness, and poetic puzzles for cleverness of keywords and verse. Write "The Sphinx," *The Four-Star Puzzler*, 515 Madison Avenue, New York, NY 10022. Enclose a stamped return envelope if you wish a reply.

Cryptic Crossword

CHRIS JOHNSON



Each cryptic clue contains two indications of its answer—a direct or indirect definition, and some sort of wordplay on it (anagram, pun, or reversal, etc.). You'll know when you have an answer because every word in the clue will have a role in leading you to it. For new solvers: Explanations will appear with answers next month.

DOWN

- 1 Choose a mining tool (4)
- 2 Customary defeat in end of game (7)
- 3 Sadly, day slipped into chaos (14)
- 4 Portions brought up by belt (5)
- 6 Looking over country "gal" (7)
- 7 Turkey's internal preparations cause Reds to break down and confess (8)
- 8 Talks eastern Connecticut into inducements (8)
- 9 Put pipes in the basement—reach the lowest level (5, 3, 6)
- 14 Lock held health resort from sin (8)
- 16 Friendly am I to send a telegram (8)
- 18 Unusual piece of cheese on toast (7)
- 20 Unfastened vessel sounding Swiss lake (7)
- 22 More elegant bit of clothing in overthrown hamper (5)
- 23 Remove one from dean's studies (4)

ACROSS

- 1 Ideal place is in a procession (8)
- 5 Father returns edition that's copied (4)
- 10 Sound seamen hesitate with a fast warship (7)
- 11 General Assembly is swell (7)
- 12 Joint purchase order: marijuana entertains animals (14)
- 13 About stout journalist (8)
- 15 It holds tonal discord (8)
- 17 Robert's first in the moon, the imbecile (5)
- 19 Assorted set gets in too soon from the Orient (8)
- 21 Similarity of letters (14)
- 24 Gossips should be shot in bunches (7)
- 25 Set bed beside the great lake (7)
- 26 In line at steakhouse for food, perhaps (4)
- 27 They put bandages on chests (8)

Cryptography

SALLY PORTER



Each of these messages has been put into a simple substitution cipher, but change from one sentence to the next. An asterisk indicates a proper name.

25 Tempus Fugit

TSRDNGTI RTWIOL LTK BTNNGOP
BOV IGO IYUON. ATUUGLM
LBTRN-TIOSL TVLAON, "GR YVIK
LOOBL IYUON."

26 Size-Wise

DR DK YBR YVLVKKMZDWC RZLV
RSMR PBBJ RSDYPK LBGV DY
KGMWW TMLHMPVK. KB JB
KFNTBVYMK MYJ DYLBGV RMA
QBZGK.

27 Widows' Woes

*QUOTED QUIOSON WHEICAIMERLF
REO OUB FZUB CIHA QSFUNDOD
UO *CHAFTED EYFU GSE GSTAU
REFFACCA VYEDAL.

28 Roots

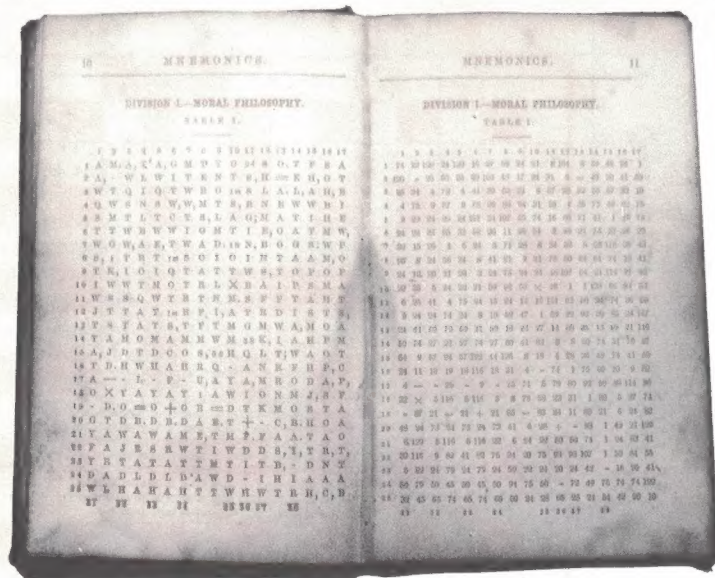
ILK IVDABJBLH RIL UHXX KDM
USIU PIXXIADBY ILE OILBIADBY
UAIKH USHJA WIGJXK UAHN UD
USH VILEJRDU.

29 Battle of the Bulge

INGTOORGH CHYD BRKKNXTOUN
FNEIT FQTOOF UNGVTX RG
INORXHT IDNXY. MTFY FWHQ
FOEBRGH HIT IXTNB UTFTTXY.

The Book We Can't Read

A Real-Life Puzzle



Some friends of ours recently found this intriguing book (two pages of which are shown above) while browsing in an antique shop. However, neither they nor we have any idea what the book is about. We'd like your help in solving the mystery. Here is what we *do* know:

1. The full title of the book is *Written Mnemonics: Illustrated by Copious Examples From Moral Philosophy, Science, and Religion*. (Publisher and publication date unknown.)

2. The book measures approximately 3 1/2" by 5 1/2" and contains 135 pages.

3. The inscription inside the front cover reads (we think) "Jas. K. McSian, Rutland, Vt., May 21, 1863."

4. The book itself is divided into three parts—Moral Philosophy, Science, and Religion—and each division is further divided into a series of tables, with no explanation given for their use.

5. This chart, as mysterious to us as the tables, is pasted inside the back cover:

	I	II	III
Gen. R.	4 1 1	4 1 1	4 1 1
Cong.	4 3 5	28 1 2	34 1 6
Pur.	4 2 10	28 1 3	36 1 6
Ty.	6 4 7	28 1 5	36 12 16
Lee.	10 1 4	30 1 6	36 1 11
Open.	20 1 3	32 1 15	38 1 1
Gen. R.	60 1 1	102 1 1	110 1 1
Prep.	62 1 11	102 5 1	110 5 8
Rep.	68 1 12	102 9 8	110 9 3
Ent.	72 1 1	102 18 5	110 10 13
Fra.	78 1 11		
Circ.	82 1 14	102 19 14	110 12 5
Adv.	90 1 1	102 24 3	110 15 12
Ob.	90 15 1	104 3 2	110 20 16
Inst.	94 2 1	104 18 9	112 11 6
Inves.	96 13 7	104 20 2	112 12 16
Plac.	100 4 2	104 20 15	112 13 12
Rewar.		100 1 1	
Trag.			112 14 12
L to R	38 1 6		
R to L	42 1 1		
Cl.	48 1 2		
Cl.	60 1 1		

17, Twmnglk, woud.

It is hard to imagine this "mnemonics" book being a practical memory jogger. But then, what is it? One member of our staff who has a lively imagination suggests that it is some sort of Civil War code book. If you have any ideas or information, send it to "The Book We Can't Read," *The Four-Star Puzzler*, 515 Madison Ave., New York, NY 10022. A full report will appear in a future issue.

"Zounds!" Yelled Xavier

A Four-Star Contest
LINDA BOSSON

"Zounds!" yelled Xavier. "Would vampires unflinchingly tippie some Rumanian queen's plasma? Oh, no! Most legendary killers judge it hardly gratifying fare. Even Dracula chugalugs blood apathetically."

Although the above story does not exactly pulsate with drama, suspense, and heart-warming interest, it does have a distinctive feature. The first word begins with Z, the second with Y, the third with X, and so on through the alphabet backwards. Here is another Z-to-A story:

Zoologists yesterday xeroxed William Vanderbilt's university transcripts, surreptitiously removing questionable portions. Only now may laboratory kangaroos jump into Harvard, graduating from each discipline chiefly by acrobatics.

Try your hand (or other appendage)

at an anti-alphabetical anecdote and send it in to us.

First Prize: *The Original Water-Color Paintings by John James Audubon for the Birds of America* (American Heritage, 1966, 860 pages)

10 Runner-Up Prizes: "Puzzlers Have Fun with Squares" cotton T-shirts

Send your entries to "Zounds!" Yelled Xavier," *The Four-Star Puzzler*, 515 Madison Avenue, New York, NY 10022. Entries will be judged on creativity and cleverness, and the decision of the judges is capricious and final. Entries must be received by February 10, 1981. All entries become the property of *The Four-Star Puzzler*. Winners will appear in the May issue.

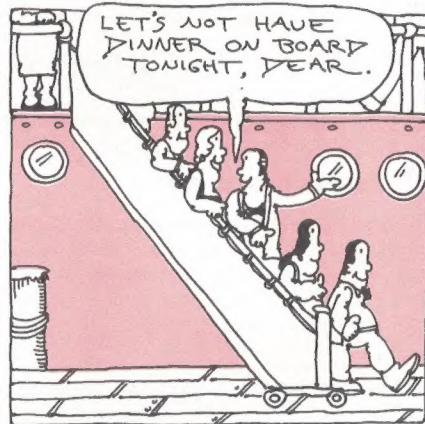
31 Can You Answer This?

HENRY HOOK

1. How long did the Hundred Years' War last?
2. Per acre, which was our better bargain: Alaska, or the Louisiana Territory?
3. Statues of heroes on horseback sometimes show the horses rearing. What is the significance, if any, of the horse's position?
4. What fruit has its seeds on the outside?
5. Two of our Presidents had as many syllables in their full names as they did in their monograms. Which two? And what President had more syllables in his monogram than in his name?
6. When Joseph Smith founded the Mormon Church, which U.S. state was he in?
7. Sheepdogs are trained to herd and guard sheep. Sled dogs are trained to pull Eskimo sleds. What are firedogs useful for?
8. Which is the only poisonous part of a cashew tree?

Answers, page 10

32 TV Personality: 5, 5



33 Acrostic Puzzle

CHARLES A. DUERR

February, 1981

THE FOUR-STAR PUZZLER

Page 7

Answer the clues for words to be entered on the numbered dashes. Then transfer the letters on the dashes to the correspondingly numbered squares in the puzzle grid to spell a quotation reading from left to right. Black squares separate words in the quotation. Work back and forth between grid and word list to complete the puzzle. When you are done, the initial letters of the words in the word list will spell the name of the author and the source of the quotation.

Clues Word List

- A. Gnarled, intricate 108 42 68 87 136 190
- B. Accountant 53 148 169 134 88 36 151
- C. Bragging speech (Var.) 11 183 27 94 110 64 152 34 132
- D. First name of Humphrey Bogart's widow 67 123 167 100 187 86
- E. "... the — and cold hand of death" (Henry IV) 62 93 49 186 158 7
- F. Made one's way insidiously or deviously 133 77 91 176 159 105
- G. Lacking in beauty, grace, refinement 106 5 39 168 90 31 69 141 114
- H. Carefree existence (3 wds.) 29 24 1 102 116 71 124 96 185
- I. Defraud in a certain manner (Hyph.) 95 21 127 2 84 111 63 15 52
- J. " — that covers me..." (Henry, *Invictus*; 4 wds.) 191 28 20 119 79 56 179 131 109
- 3 13 89 153
- K. Islands of Melanesia (2 wds.) 112 16 165 35 45 121 81 107 30.
- L. Address of Timothy, Ann, Juley, and Hester Forsyte (2 wds.) 130 10 137 38 117 57 181 4 14
- 126 80 103 142
- M. This clue ends with one, obviously 180 59 17 155 78 146
- N. Pass linking the Kabul River valley with Peshawar 70 44 65 150 177 161
- O. Cleaving readily or distinctly: said of a mineral 145 9 157 32 76 113 139 170
- P. With regrets 61 33 149 129 192 46 174 118
- Q. Instrument for measuring differences in electrical potential 66 8 37 147 92 82 50 171 122 188
- R. Polyphonic vocal composition 73 138 54 58 97
- S. Process of shaping by forcing through a specially designed opening 163 135 143 156 41 25 172 128 104
- T. Brought about 18 60 173 48 160 99 120 140 23
- U. Venomous snake of Australia and Tasmania (2 wds.) 19 12 22 178 154 125 164 51 98 75
- V. Falls on Snake River, Oregon 182 26 72 43 115 166 55 175

1H	2I	3J	4L	5G	6C	7E	8Q	9O	10L	11C	12U	13J	14L	15I	16K	17M	18T	19U	20J
21I	22U	23T	24H	25S	26V	27C	28J	29H	30K	31G	32O	33P	34C	35K	36B	37Q	38L	39G	40T
41S	42A	43V	44N	45K	46P	47I	48T	49E	50Q	51U	52I	53B	54R	55V	56J	57L	58R	59M	60T
61P	62E	63I	64C	65N	66Q	67D	68A	69G	70N	71H	72V	73R	74C	75U	76O	77F	78M	79J	
80L	81K	82Q	83H	84I	85C	86D	87A	88B	89J	90G	91F	92Q	93E	94C	95I	96H	97R	98U	
99T	100D	101K	102H	103L	104S	105F	106G	107K	108A	109J	110C	111I	112K	113O	114G	115V	116H		
117L	118P	119J	120T	121K	122Q	123D	124H	125U	126L	127I	128S	129P	130L	131J	132C	133F	134B	135S	
136A	137L	138R	139O	140T	141G	142L	143S	144I	145O	146M	147Q	148B	149P	150N	151B	152C	153J	154U	
155M	156S	157O	158E	159F	160T	161N	162H	163S	164U	165K	166V	167D	168G	169B	170O	171Q	172S	173T	174P
175V	176F	177N	178U	179J	180M	181L	182V	183C	184T	185H	186E	187D	188Q	189K	190A	191J	192P		

Who's Who in Puzzledom

Norton Rhoades

Norton Rhoades has become a familiar name to solvers who have tackled crosswords, cryptograms, double-crosses, and in recent years particularly, *New York Times* diagramless crosswords. Since retirement as a high school principal in 1965, Rhoades has published some 2,000 puzzles—which, amazingly, represents only half of his lifetime output.



The former Latin teacher and principal got his start in puzzlemaking in 1941, while still a teacher at Stamford High School in Stamford, Connecticut. One afternoon he picked up the crossword page from a newspaper in the faculty lounge and found that the clues had been torn off. "I started filling in my own entries," Rhoades recalls, "and found it surprisingly easy."

This maiden effort met with an encouraging result: He sold the 15x15 crossword to the *New York Herald Tribune* for a tidy \$7.50. And he has been making puzzles ever since.

Today Rhoades devotes much of his puzzle efforts to the diagramless crossword (in which the grid of black-and-white squares is not given to the solver) and the cryptogram. His diagramless puzzles are unusual in that, when they are solved, the shape of the grid and pattern of black squares often relate to the theme. For example, his most popular diagramless, published in *The New York Times* a year ago, was in the shape of the Taj Mahal. Some of the key entries were SHAH JEHAN (the man who built the monument), AGRA (the site), MAUSOLEUM, MINARET, LILY POND, and of course TAJ MAHAL itself, at the top of the puzzle. Even the reflecting pool was represented by black squares.

Rhoades' cryptograms are usually based on a curious word or phrase, with "some little humor" or point shaped around it. His only rules of composition are that every letter used must appear at least twice, and the whole cryptogram should be as short as possible. From his latest batch of puzzles he showed us one of his favorite answers: A LAUGH PERHAPS: IN OLD NEW ENGLAND, "DOWN EAST" IS "UP NORTH."

Mrs. Ann Rhoades has a small puzzle career of her own, a natural outgrowth of her original role as test-solver and "principal source of inspiration" for her husband. Her crosswords have appeared in the Simon and Schuster crossword books and the Chicago Tribune-New York News syndicated puzzle page. Together they sometimes spread out their puzzles on the dining room table where they have plenty of room to work.

When puzzles are business, diversions take a nonverbal turn. "We're very outdoorsy people," Rhoades says. In summer he and Ann enjoy birdwatching near their lakeside cabin in Washington, Maine. Last summer they went on an expedition in a fogbound tugboat in the hope of sighting a puffin.

Another of Rhoades' favorite pastimes is playing chess by correspondence, which he has been doing for years with a friend in California. Bridge, too, is a regular source of entertainment, especially for Ann, who plays in two bridge clubs weekly.

For Norton Rhoades, however, few other activities are as therapeutic as composing cryptograms and diagramless cross-

words. The only aspect that irritates him at all is typing up the crossword definitions.

"God knows it's not an income," he acknowledges of his puzzling. "Even the byline gets tiresome," he says less seriously. "But the pleasure of pushing everything else aside and putting together a puzzle never fades."

—MICHELLE ARNOT

34 Carnival Booth

Diagramless Crossword

NORTON RHOADES

This diagramless is 24 squares wide by 15 squares deep, and is symmetric from left to right.

ACROSS

- 1 Evade
- 5 Durable cotton fabric
- 9 Word with dead or lame
- 13 Quick plunge
- 17 Mixture
- 18 Unique person
- 19 "Got it"
- 20 Like a June day?
- 21 Certain airport: Abbr.
- 22 Mrs. Khrushchev
- 23 White or Blue river
- 24 Lined up, as targets
- 25 25¢ ____ shot
- 26 Carnival attraction
- 33 GI's address
- 35 Erstwhile shahdom
- 37 Blue movie, for short
- 38 Blue-winged, e.g.
- 39 Pelion's pile-on partner
- 40 Ado
- 41 Took for granted
- 43 Fishhawk
- 45 "____ to meetcha!"
- 47 Beatnik's exclamation
- 48 Carmen's org.
- 50 ____ on a Grecian Urn
- 53 Greek letter
- 54 Wearable prize
- 57 Promises early to the United Way
- 62 Redheads' gimmicks?
- 66 College subj.
- 67 Cuddly prizes
- 68 Long-distance cost
- 69 Place to remember
- 73 Coming-outers
- 74 Certain wind
- 78 Early evictee
- 79 Thrice CCCXXXIV
- 80 Bestowed a prize

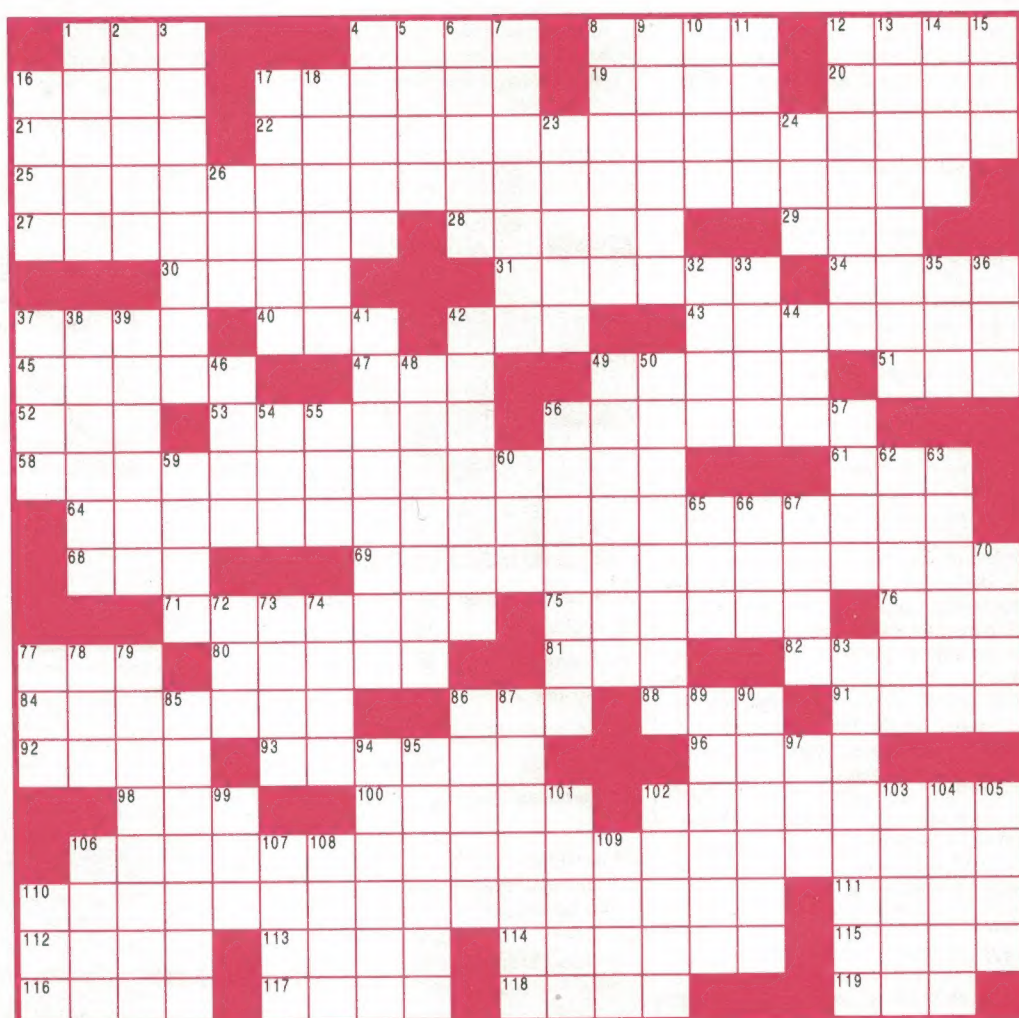
- 84 Teacher's weapon
- 90 Fleets
- 95 Change the price
- 96 Postage canceling machines
- 101 Actress Massey
- 102 Loosen
- 103 Where you put your money
- 104 "Forget it!"
- 105 Stick to one's ____ (insist)
- 106 Accelerates
- 107 Staplers
- 108 Seeks determinedly, with "for"

DOWN

- 1 Doctors, sometimes
- 2 Far-out people
- 3 AFL's partner
- 4 Flavorful nut
- 5 Contributor
- 6 Winning side at Antietam
- 7 Copper
- 8 Asian snakes
- 9 Small, secluded valley
- 10 Broadcasters' org.
- 11 Casals' instrument
- 12 Faints, with "over"
- 13 Horse-drawn truck
- 14 Former Mideast alliance
- 15 Certain Slavs
- 16 Prize doll
- 25 Ingrid's daughter
- 27 "We ____ too much!"
- 28 Coal carrier
- 29 Fiber cluster
- 30 Civil War vets: Abbr.
- 31 Sixth sense, maybe
- 32 Bunche or Nader
- 34 California fort
- 36 Expressions of will power
- 40 Canonized femme
- 42 Scratch
- 43 Was in the red
- 44 Hindu philosophy
- 46 Comp. pt.
- 48 Capable of
- 49 Exist
- 51 Adenauer, ____ Alte
- 52 Being, to Antony
- 54 Viet holiday
- 55 Elem. or norm.
- 56 Markham's *The Man With the ____*
- 58 Teaching deg.
- 59 Soap ingredient
- 60 Wane
- 61 ____ Plaines, Ill.
- 63 "Neither you ____ I"
- 64 Everyone
- 65 Foxlike
- 70 Shelves
- 71 Hail, Caesar!
- 72 French wine district
- 75 Pile up
- 76 Title
- 77 Selection of the right moment to shoot
- 80 Indonesian isle
- 81 Puzzle editor Will
- 82 One of the Aleutians
- 83 "... like the ____ from heaven"
- 84 Paavo Nurmi, e.g.
- 85 Catchall abbrs.
- 86 Antique car
- 87 S.A. country
- 88 Auld ____ syne
- 89 Remark to Brutus
- 91 Baseball family
- 92 "Knock'em all ____!"
- 93 Literary collections
- 94 "You don't ____!"
- 97 Fen
- 98 Campus at Greenvale
- 99 Wine: Prefix
- 100 Forms of transp.

35 Fishful Thinking

A. J. SANTORA



ACROSS

- 1 Mindless
4 First word, perhaps
8 Sci. degs.
12 Storm
16 Island of song
17 Worships
19 "Jazz" state
20 Particle
21 New Testament book
22 1803 fishing pact?
25 Fishy singing team?
27 Sisterhood
28 Start of a Dickens title
29 Where Mr. 'Arris 'angs 'is 'at
30 String
31 Conciliatory
34 Sicilian burper
37 "And what — rare as . . ."
40 Old English letter
42 Mil. medal
43 More impertinent
45 County
47 40-yard sash?
49 Terre —, Indiana
51 Army bed
52 One of Louisa May's foursome
53 Father of Zeus
56 Plant seed
58 Fishy proceedings on "the Hill"?
61 Place for unmailables: Abbr.
64 "I pray —" (fishmonger's invocation?)
68 No-seats sign
69 Illegal catch of small fry?
71 Where some folks

- get fast
75 Shrewd
76 Grande or Rita
77 Pitching stat.
80 Bushwah!
81 "— nuff!"
82 Bluecap and tomtit
84 Panamanian coins
86 "— loves me . . ."
88 Scale syllables
91 Hence
92 Steady
93 Signify
96 Nash's "one-L" priest
98 — Elum (Yakima feeder)
100 Author Zola
102 Instances of otalgia
106 Dining activity at a crowded fish fry?
110 Fish entree?
111 "What's — for me?"

- 112 Remark to Brutus
113 Wild ox
114 Us, in 1944
115 Chances
116 Egyptian solar deity
117 Puts on
118 Dries Kennedy's field?
119 Greek letters

DOWN

- 1 Manly
2 Make changes
3 Fade
4 One of the Bibles
5 Polynesian king: Var.
6 550-mile Ukrainian river
7 Oriental
8 Wad
9 The — Island Ferry
10 Part of Reeve's

- costume
11 Mission deity, in China
12 Flower cluster
13 Like Bruce Jenner
14 Departs
15 Bad —
16 Zany
17 Of mountain-eering
18 I might be like this
23 Pay — and a leg
24 Old automobile
26 Exodus hero
32 "The jig —"
33 Roman statesman (with nine tails?)
35 Modernist
36 Finesse
37 Teachings
38 Bed covers
39 Roman Mr.
41 Busy insect
42 Undress

- 44 Talk by the Rev.
46 Prefix with plasm
48 Monastery coffers
49 Empty talk
50 Helper, in law
54 Word with eyed or nosed
55 Electrical unit
56 Profit from a balk
57 "Genie" Barbara
59 Dramatic conflict
60 — va (He goes there): Fr.
62 Dirty old man
63 Picking one or t'other
65 Baton Rouge campus
66 Kindled
67 Recognized
70 Just average
72 Mocker's cry
73 Blue dye
74 Nylons
77 Recede
78 Comedienne Charlotte
79 By the menu
83 Side effect
85 Civil War site
86 Fence rail
87 Vixen
89 Pass by
90 Delhi garments: Var.
94 Wayne of Vegas fame
95 Siouan tribe
97 Pasture sound
99 Sprite
101 School, in Paris
102 "To — human . . ."
103 Delhi tongue
104 Mrs. Geraint et al.
105 NCOs
106 He let off steam
107 Kermit's kinsman
108 "Whether —"
109 — Lang Syne
110 Shade of green

Answers

This Issue

① 1. March (cram) 2. Cabinet 3. Damn 4. Count 5. Lewis Carroll 6. J 7. Hammock (comma) 8. $1 \times 3 = 3$ 9. $2(3^3) - 5 = 49$; $\sqrt{49} = 7$ 10. Circle 11. You're no fool!

⑥ When I was kidnapped my parents snapped into action; they rented out my room. Woody Allen

⑦ There are an awful lot of skinny people in the cemetery. Beverly Sills

③⑩ 1. 116 years, from 1337 to 1453. 2. Alaska cost us 2¢ per acre; Louisiana cost us 3¢ per acre. 3. It indicates how the rider died: four hooves on the ground, natural death; two hooves raised, killed in battle; one hoof raised, died of battle wounds. 4. Strawberry. 5. George Washington and James Knox Polk; Woodrow Wilson. 6. New York. 7. For holding logs; they're andirons. 8. The nuts! They must be roasted or boiled before they're edible.

③⑧ Suicidal people don't usually invest thousands of dollars in new tools, such as the word-processing equipment. This made Hard-case look harder for some concrete evidence to disprove the suicide premise. He found it in her typewriter. Ball-type electric typewriters strike with a uniform pressure, regardless of the force exerted on the keys. Hence, the suicide note must have been typed on another machine—by another typist.

④① If a clock takes an hour to run 50 minutes, it takes six minutes to run five. The clock will read 12:50 at 1 o'clock, 1:40 at 2, 2:30 at 3, 2:55 at 3:30, and 3:00 at 3:36.

④② The answer is ANSWER.

④③ 16,000 miles.

④④ Take 10 A.M. Add 4 hours. The answer is 2 o'clock.

④⑤ With 13 letters, BACCALAUREATE or COMMEMORATIVE.

④⑥ The photo costs \$8.00. The frames cost \$4.00 and \$2.00, respectively.

④⑦ 75 minutes.

④⑧ When he is a clergyman performing his daughter's wedding ceremony.

Last Issue

① CLOCKWISE: 1. Pizazz 2. Horner 3. Cretin 4. Arrows 5. Foment 6. Cesium 7. Metric 8. Raisin 9. Sestet 10. Backed 11. Pentad 12. Huxley 13. Seller 14. Sailed 15. Ballet 16. Mutiny.

COUNTERCLOCKWISE: 1. Pulley 2. Hitler 3. Cozied 4. Arrant 5. Frenzy 6. Cortez 7. Memoir 8. Resewn 9. Satins 10. Beirut 11. Passim 12. Hectic 13. Sunken 14. Sextet 15. Ballad 16. Mailed.

② Brooke Shields ③ Doc Holliday

④ 401-Zeller, seeder-fertilizer, tree trimmer, ornamental trees

403-Xavier, edger-trimmer, green thumb, fountains

405-Wright, sprinkler, boys to mow, flower beds

407-Young, mower, soils expert, fancy hedges

409-Vernon, hedge clippers, landscape architect, fish pond

A full explanation is available upon request. Send a self-addressed stamped envelope to "Lawn Order," *The Four-Star Puzzler*, 515 Madison Ave., New York, NY 10022.



- ⑦ A sewing needle ⑭ Patching/nightcap
 ⑧ A clock ⑮ Pupils/slipup
 ⑨ A ring ⑯ Sketch-ketch-etch
 ⑩ Cur-few ⑰ A gentleman
 ⑪ Fin-germ-ark ⑱ A forged signature
 ⑫ Kiss/skis ⑲ The Declaration of Independence
 ⑬ Barcelona

②⑨ Newlywed pranksters prepare for inevitable shivaree, spiking sassafras libations with white lightning.

②① Dinky isthmus causes uproar among solons. Hayakawa heard by colleagues to quip, "We stole it fair and square."

②② Stir-fry cook quakes from queer, horrific dream: teriyaki scorched, green onion squishy, soy sauce sour.

②③ Fraught with frightful thoughts, doughty drayman drives through thunderstorm, mightily whipping horse.

②④ Farm-born mercenary expunges country bumpkin myth by exhibiting estimable sangfroid during daring raid.

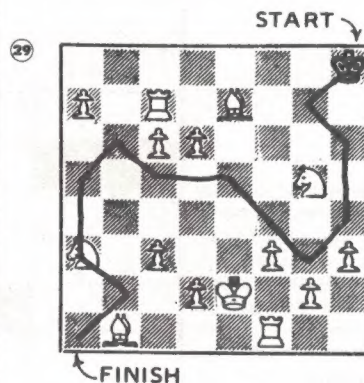
②⑤ ACROSS: 1. SOU(TH)E-R-N-CROSS. 9. LOCKS (2 mngs.) 10. IN-A-N-I-MATE. 11. C(HER)OOT. 12. P(R)ICKLE. 13. SPR(A)Y. 14. GABARDINE (anag.) 17. BAD-MINTON. 19. PE(R)ON. 21. HACK-SAW (was rev.) 24. AN-TWERP. 25. S(A-TELL)ITE. 26. HAIT-I (Thai anag.) 27. HORSE FEATHERS (anag.).

DOWN: 1. SOL-ACE'S. 2. UNCLE-A-RED. 3. HIS-TORY. 4. R(AIN'T)IGHT. 5. CHAMP (2 mngs.) 6. OLIV(I)ER. 7. STALK (2 mngs.) 8. REVERE (2 mngs.) 15. BEN(GALES)E (sol anag.) 16. ISRAELITE (anag.) 17. BEHEST (anag.) 18. INSULAR (anag.) 19. POT'S-HOT. 20. NAPKIN'S. 22. CATCH (hidden). 23. WA(I)VE.

②⑦ ②⑧ There are many solutions for the first problem, but the configuration below works for both problems. The cards are arranged on

the left; the magic square thus formed is on the right.

A ♠	K ♦	Q ♥	J ♣	16	7	10	1
J ♥	Q ♣	K ♠	A ♦	9	2	15	8
K ♣	A ♥	J ♦	Q ♠	3	12	5	14
Q ♦	J ♠	A ♣	K ♥	6	13	4	11



③⑩ Word List: A. Festoon B. Retentionist C. I Wish You Love D. Esprit E. Domesticity F. Mistress Overdone G. An honorable man H. Nottaway I. Favoritism J. Rectory K. Entrepreneur L. Encaenia M. Tension N. Otiose O. Content therewith P. Hollowed Q. Odette R. Other-directed S. Saddens T. Edvard Grieg.

Quotation: We do live in an interdependent society. Some restrictions on our freedom are necessary to avoid other, still worse, restrictions. However, we have gone far beyond that point. The urgent need today is to eliminate restrictions, not add to them.—(Milton and Rose) Friedman, *Free to Choose*

③① There are 31 lockers open in the end: Nos. 1, 4, 9, 16, 25, 36, 49, . . . , 961; i.e., all the lockers with numbers that are perfect squares. Reason: Perfect squares have an odd number of divisors, so the lockers with these numbers would have their status changed an odd number of times (leaving them open in the end); all other numbers have an even number of divisors, so the lockers with these numbers would have their status changed an even number of times (leaving them shut in the end).

③② Jim Nabors

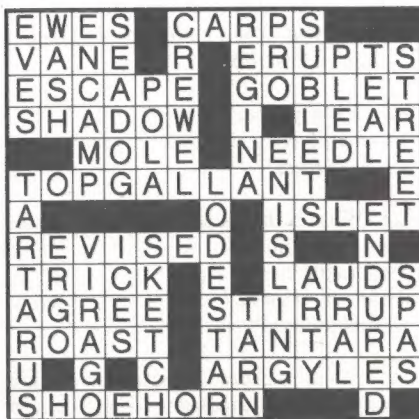
③③



③④ Procter and Gamble

③⑤ Chinese Checkers ③⑥ Crystal Gayle

37 AP. ENCAMP (anag.), AQ. EWES (hidden), AS. CREW-EL, AV. CARPS (2 mngs.), AY. H(OARS)E, BN. (n)EVES (rev.), BO. VANE ("vain"), BR. FORWARD (2 mngs.), BV. ERUPTS (anag.), BZ. STREET (anag.), CO. WAS-H, CR. ESCAPE, CT. JUNK (2 mngs.), CV. PRO(w), CX. GOBLET (pun), CY. T(h)E(s)A(i)L, DO. SHAD-OW, DR. POLA(ris), DU. R(E.G.)INA (rain anag.), DV. BASTION (anag.), DW. LEAR (hidden), EO. FATHOM (2 mngs.), EQ. MOLE (acronym), EV. NEEDLE (2 mngs.), EW. SUBLETS (pun), EX. P(o)LED, FQ. SE(AD)OG (goes rev.), FS. TOP-GALLANT, FT. L-ODESTAR (so trade anag.), FY. F-LOG, GP. YAWL ("y'all"), GU. HAUL (2 mngs.), GY. ISLET ("I lit"), HN. TAR-TAR-US, HQ. I-CES (sec rev.), HR. REVI(SE)D (diver rev.), HW. FLAG-ON, HZ. BATTER (2 mngs.), IN. TRICK, IZ. LA(U)DS, JO. AGREE (hidden), JP. VIRAGO (hidden rev.), JS. JACK (2 mngs.), JV. ENIS(L.I.)NG (ensign anag.), JX. STIR(RU(m))P (trips anag.), JY. ENDU-RED (dune anag.), JZ. SPAS (anag.), KO. ERGO (hidden), KP. ROAS-T (oars anag.), KU. TARN (anag.), KW. ART-Y, KZ. TANTARA (hidden), LO. BASS (2 mngs.), LQ. B-RACE, LT. ARGYLES (anag.), LX. (r)URAL, MR. SKETCH, MT. SH-O.E.-HORN, MX. HASTENED (anag.), MZ. BOB-BING



39 $\frac{319}{32} \overline{) 10208}$

40 Doonesbury

41 Balzac

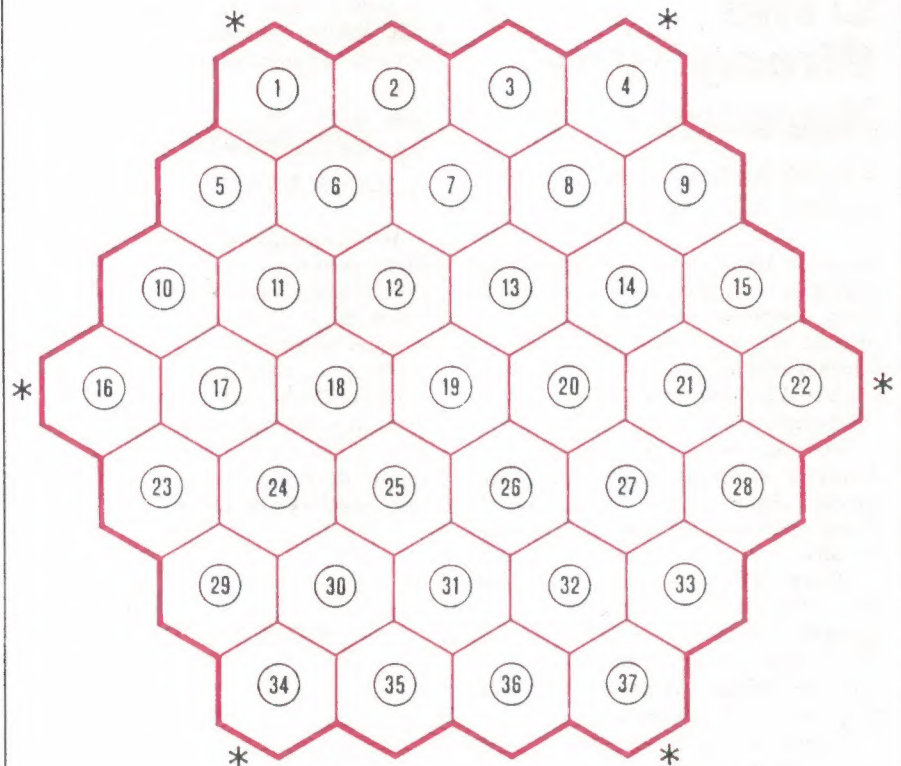
36 Famous Story: 6, 2, 6, 6



37 Spelling Bee

EMILY COX AND HENRY RATHVON

(Acknowledgments to John de Cuevas)



The diagram represents a honeycomb of hexagonal cells made by a Spelling Bee who has spelled out 37 six-letter words, one word for each cell, one letter for each side of a cell. A word may begin at any side of a cell and proceed clockwise or counterclockwise; the letters on either side of a wall common to two cells will be identical. To provide a further check, the Spelling Bee has created a six-letter word from the starred sides of the honeycomb (reading clockwise from 1). Answers include three proper nouns. Punctuation may be used deceptively.

CLUES

- 1 Group of bees, perhaps, in two states
- 2 Underwear worn by North Dakota types
- 3 What a surprise is in pan—blubber
- 4 Class of animals—listen, keep 'em organized
- 5 Lots of stars can be loose and light-hearted outwardly
- 6 Poems on South American port
- 7 150 getting toes injured in a very small room
- 8 A traveler to the Orient has gotten me some tropical fruit
- 9 Loudly fetching carriage
- 10 First of wives in bed with attorney
- 11 Ten bees swarming round about vessels
- 12 Coach sat exercising with small weights
- 13 Pony's key function
- 14 Wilder said, "Rejection of manuscript is cruel depravity"
- 15 Audible, visible egg
- 16 Turning points in youthful crazes
- 17 Old Roman vehicle goes around rough spot in road
- 18 Red Sea, extraordinarily, dried up
- 19 Hunted animal's hole in the ground
- 20 Flatten vegetable
- 21 Indians holding unsatisfactory beliefs
- 22 Tap toe restlessly in part of a service
- 23 Left as a prisoner of war, attempt to escape
- 24 Crowd led out after Newman flick
- 25 Tear shed at obituary listings
- 26 Tall African rudely made us wait
- 27 Robe from chin to bust
- 28 Junk dealer for Joplin?
- 29 Entertainer reveals his age, foolishly
- 30 Schoolchildren goof around
- 31 Outcast pop musical brought back
- 32 Biggest card in the old frontier
- 33 OK'd sea travels, being all wet
- 34 Quietly snicker about dresses
- 35 Dawn comes with gold in atmosphere
- 36 Poet's maintaining love gives sustenance
- 37 Invent new sieve with small diameter opening

Three-Minute Detective

Inspector Hardcase's favorite public stenographer was Mildred Ritchie. Besides being competent in shorthand and typing, she was a person whose humor and buoyant outlook touched everybody she contacted and left them feeling better for the experience.

"Sorry, Hardcase," Capt. Andrews said, "it's clearly suicide—note in the typewriter, flowers on the table, dressed in her Sunday best, the whole routine. It was the typical overdramatized 'swan song' of a lonely, romantic spinster."

Capt. Andrews picked up a sheet of paper from his desk. "Here, read it for yourself."

"Anybody would type like that after taking that much chloral hydrate. You won't find a mystery here. It's a simple case of a lonely, frustrated, depressed woman who finally gave up and let go."

Capt. Andrews handed him a key.
"Have fun."

"Best friend and," Andrews tapped the note, "sole heir, according to this. Libbie French."

In her office Hardcase took inventory of what he saw against what he remembered: three four-drawer files, rotary card file, photocopier, tape recorder, and the latest model ball-type electric typewriter. In one corner, still unpacked, stood the display and memory units of an electron-

We have removed all but two of the digits from the long-division problem below. The object is to replace the numbers, one digit per dash, so that the completed division is mathematically correct. The puzzle has a unique solution.

2

[illegible]

— 322 —

7

remainder

41 A clock loses 10 minutes each hour. If the clock is set correctly at noon, what time is it when the clock reads 3 P.M.? — *John Paul Adams, We Dare You to Solve This! No. 3*

42 We all know that the word NEWS contains the four compass points north, east, west, and south. Can you think of a common six-letter word with these four letters slumped in the middle? —*Stephen Barr, Puzzlequiz*

43 A car which has traveled 24,000 miles has worn out six tires, each of which has traveled an equal distance. How far has each tire traveled? —*Robert Streeter and Robert Hoehn, Are You a Genius?, Second Series*

44 See if you can make 10 plus 4 equal 2.—*Joseph & Lenore Scott, Teasers, Quizzes & Riddles*

45 What is the longest common English word you can give in which all of the consonants are in alphabetical order? — *P. M. H. Kendall and G. M. Thomas, Mathematical Puzzles for the Connoisseur*

46 “Your picture,” said the photographer, “in this handsome frame will be just \$12.00. But if you prefer to take it in a frame costing only half as much as this one, the price will be just \$10.00.” What was the price of the photo without a frame? —*John Paul Adams, We Dare You To Solve This! No. 2*

47 If a clock is stopped for five minutes every fifteen minutes, how long will it take the minute hand to make a complete revolution? —*Robert Streeter and Robert Hoehn, Are You a Genius?, Second Series*

48 When is it legal in Kentucky for a man to marry his own daughter? —*L. H. Longley-Cook, More Puzzle Fun*

Answers, page 10

Do you have an original, unpublished brain-teaser? Send it to "At Wit's End," The Four-Star Puzzler, 515 Madison Avenue, New York, NY 10022. We'll pay \$20 for each one used.